ENVIRONMENTAL CHEMISTS

Date of Report: January 30, 1996 Date Received: January 25, 1996 Project: Self Monitor, PO #M71436

Date Samples Extracted: January 26, 1996 Date Extracts Analyzed: January 26, 1996

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, AND ZINC USING METHOD 6010

Samples Processed Using Method 3005 Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	Zinc
M71436	0.47	0.53	0.34	< 0.05
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

FRIEDMAN & BRUYA, INC. **ENVIRONMENTAL CHEMISTS**

Date of Report: January 30, 1996 Date Received: January 25, 1996

Project: Self Monitor, PO #M71436

QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL, AND ZINC Samples Processed Using Method 3005

Laboratory Code: KE66178DP

	Reporting	Sample	Duplicate		Acceptance
Analyte:	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.47	0.49	4	0-20
Copper	mg/L (ppm)	0.53	0.52	2	0-20
Nickel	mg/L (ppm)	0.34	0.36	6	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: KE66178MS/MSD

	Reporting	Spike	Sample	0/, 1	Recoverv	Acceptance	Relative Percent
Analyte:	Units	Level	Annual Parket	MS	MSD	<u>Criteria</u>	<u>Difference</u>
Chromium	mg/L (ppm)	5	0.47	94	95	80-120	1
Copper	mg/L (ppm)	5	0.53	90	89	80-120	1
Nickel	mg/L (ppm)	10	0.34	95	96	80-120	1
Zinc	mg/L (ppm)	5	< 0.05	98	99	80-120	1

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recover	y Acceptance Criteria
Chromium	mg/L (ppm)	5	105	80-120
Copper	mg/L (ppm)	5	106	80-120
Nickel	mg/L (ppm)	10	104	80-120
Zinc	mg/L (ppm)	5	106	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

3012 16th Avenue West Seattle, WA 98119-2029

(206) 285-8282

FCT_MS/COC

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ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

January 30, 1996

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on January 25, 1996 from your Self Monitor, PO #M71436 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson Chemist

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Enclosures

FAX: 382-7335 ACU0130R.DOC

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

January 30, 1996

INVOICE # 96ACU0130-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Self Monitor, PO #M71436: Results of testing requested by Gerry Thompson, Project Manager for material submitted on January 25, 1996.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$65 per sample \$ 65.00

Amount Due \$ 65.00